

Amendments to the Claims:

1. (canceled)
2. (currently amended) An isolated nucleic acid molecule comprising a nucleotide sequence having at least ~~90%~~ 95% sequence identity to the sequence set forth in SEQ ID NO: 3, wherein said sequence encodes a polypeptide having ~~LOX-like~~ LOX activity and wherein said sequence identity to SEQ ID NO:3 is determined using the GAP algorithm using default parameters.
3. (previously amended) A DNA construct comprising the nucleotide sequence of claim 2, wherein said nucleotide sequence is operably linked to a promoter that drives expression in a host cell.
4. (previously amended) A cell having stably incorporated into its genome at least one DNA construct of claim 3.

Claims 5-24 (canceled)

25. (previously presented) A vector comprising the nucleic acid molecule of claim 2.
26. (previously presented) A cell having stably incorporated into its genome the nucleic acid molecule of claim 2.
27. (previously amended) An isolated nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of:
  - (a) a nucleic acid molecule comprising a nucleotide sequence set forth in SEQ ID NO: 3;

- (b) a nucleic acid molecule comprising a nucleotide sequence encoding an amino acid sequence set forth in SEQ ID NO: 4; and,
- (c) a nucleic acid molecule comprising an antisense nucleotide sequence of SEQ ID NO:3.

28. (previously presented) A DNA construct comprising the nucleotide sequence of claim 27, wherein said nucleotide sequence is operably linked to a promoter that drives expression in a host cell.

29. (previously presented) A cell having stably incorporated into its genome at least one DNA construct of claim 28.

30. (previously presented) A vector comprising the nucleic acid molecule of claim 27.

31. (previously presented) A cell having stably incorporated into its genome the nucleic acid molecule of claim 27.

32. (currently amended) ~~The isolated nucleic acid molecule of claim 2, wherein said nucleic acid molecule comprises~~ An isolated nucleic acid molecule comprising the cDNA insert of the plasmid deposited as Accession No. PTA-287.

33. (previously presented) An isolated DNA construct comprising the nucleic acid molecule of claim 32, wherein said nucleic acid molecule is operably linked to a promoter that drives expression in a host cell.

34. (previously presented) A cell having stably incorporated into its genome at least one DNA construct of claim 33.

35. (previously presented) A vector comprising the nucleic acid molecule of claim 32.

36. (previously presented) A cell having stably incorporated into its genome the nucleic acid molecule of claim 32.

Claims 37-41 (Canceled)

42. (currently amended) An isolated nucleic acid molecule comprising a nucleotide sequence having at least 200 contiguous nucleotides of SEQ ID NO:3, wherein said sequence encodes a full-length LOX polypeptide having ~~LOX-like~~ LOX activity.

43. (previously presented) An isolated DNA construct comprising the nucleotide sequence of claim 42, wherein said nucleotide sequence is operably linked to a promoter that drives expression in a host cell.

44. (previously presented) A cell having stably incorporated into its genome at least one DNA construct of claim 43.

45. (previously presented) A vector comprising the nucleic acid molecule of claim 42.

46. (previously presented) A cell having stably incorporated into its genome the nucleic acid molecule of claim 42.